



# 1999 Toxics Release Inventory

## OREGON

### Reported Releases and Waste Management Activities (in pounds)

	Original Industries	New Industries	Total
On-site Releases	20,552,060	45,865,727	66,417,787
Air Emissions	16,789,945	253,373	17,043,318
Surface Water Discharges	3,282,352	60	3,282,412
Underground Injection Class I Wells	0	0	0
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	5	35,877,473	35,877,478
Other On-site Land Releases	479,758	9,734,821	10,214,579
Off-site Releases (Transfers Off-site to Disposal)*	1,259,189	18,780	1,277,969
<b>Total On- and Off-site Releases</b>	<b>21,811,249</b>	<b>45,884,507</b>	<b>67,695,756</b>
Recycled On-site	24,552,174	118,500	24,670,674
Recycled Off-site	18,762,619	347,452	19,110,071
Energy Recovery On-site	11,258,882	0	11,258,882
Energy Recovery Off-site	2,575,095	5,450	2,580,545
Treated On-site	140,021,069	69,423	140,090,492
Treated Off-site**	7,401,006	1,205,098	8,606,104
Quantity Released On- and Off-site***	32,276,873	45,413,373	77,690,246
<b>Total Production-related Waste Managed</b>	<b>236,847,718</b>	<b>47,159,296</b>	<b>284,007,014</b>
<b>Total Non-production-related Waste Managed</b>	<b>34,813</b>	<b>290</b>	<b>35,103</b>

### Transfers Off-site for Further Waste Management/Disposal

Recycling	18,712,158	304,120	19,016,278
Energy Recovery	2,320,985	6,782	2,327,767
Treatment	885,860	1,090,307	1,976,167
Publicly Owned Treatment Works (POTWs)	8,392,343	3,481	8,395,824
Metals and Metal Compounds*	64,551	0	64,551
Non-metal TRI Chemicals**	8,327,792	3,481	8,331,273
Other Off-site Transfers***	0	0	0
Off-site Transfers to Disposal (not including metals to POTWs)	10,365,603	18,791	10,384,394
<b>Total Transfers Off-site for Further Waste Management/Disposal</b>	<b>40,676,949</b>	<b>1,423,481</b>	<b>42,100,430</b>

\* Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Transfers to POTWs of non-metals are included in treated off-site waste management activity.

\*\*\* Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.

\*\*\*\* Transfers reported without a valid waste management code.

### For More Information . . .

#### State Contact:

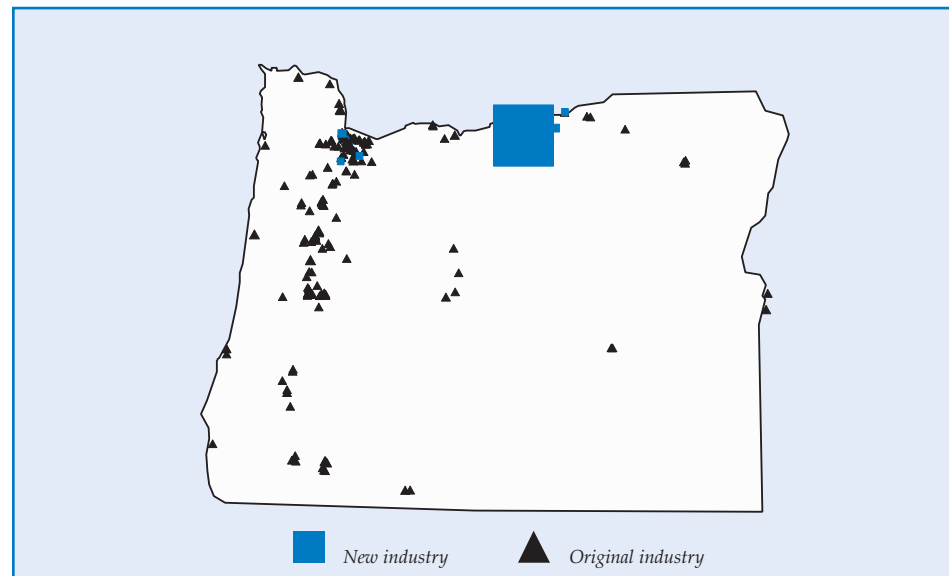
Bob Albers  
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#### EPA Regional Contact:

Christina Colt  
(206) 553-4016  
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#### To obtain TRI data use assistance, call TRI User Support Service (TRI-US):

(202) 260-1531  
Fax: (202) 401-2347



The largest marker in the state map represents the largest facility for on-site releases in the state of Oregon. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

### State/TRI Data

Population	3,316,154
Square Miles	96,003
Total Facilities	258
Total Forms	850
Form As	135

	Original Industries	New Industries	Total
<b>National Rank for Total On- and Off-site Releases*</b>			
Rank	31	22	28
Pounds	21,811,249	45,884,507	67,695,756
<b>National Rank for Total On-site Releases**</b>			
Rank	28	22	26
Pounds	20,552,060	45,865,727	66,417,787
<b>National Rank for Total Releases within State***</b>			
Rank	29	22	26
Pounds	23,565,392	46,004,411	69,569,803
<b>National Rank for Production-related Waste Managed</b>			
Rank	28	28	32
Pounds	236,847,718	47,159,296	284,007,014

\* Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Includes amounts released at the facility. Excludes amounts transferred to other sites.

\*\*\* Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.



# 1999 Toxics Release Inventory

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### On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
--	Zinc compounds	51,484	16,008	0	3,893	7,355,946	7,427,331	2,551	190,151	7,169,537
67-56-1	Methanol	7,147,507	51,425	0	33,523	8,672	7,241,127	1,067	8,422	250
--	Nitrate compounds	0	3,027,866	0	255	610	3,028,731	334,024	610	0
--	Manganese compounds	15,994	92,680	0	318,629	1,611,240	2,038,543	8,322	237,982	1,373,360
7664-41-7	Ammonia	1,793,575	49,096	0	69,628	10,101	1,922,400	10,500	9,851	250
100-42-5	Styrene	1,154,367	0	0	0	281	1,154,648	0	281	0
78-93-3	Methyl ethyl ketone	1,133,781	1,850	0	750	452	1,136,833	689	72	380
50-00-0	Formaldehyde	894,028	6,905	0	50	6,580	907,563	1,108	6,580	0
--	Lead compounds	3,533	568	0	0	782,873	786,974	986	47,176	735,736
463-58-1	Carbonyl sulfide	723,449	0	0	0	0	723,449	0	0	0

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.

### On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
1344-28-1	Aluminum oxide (fibrous forms)	0	0	0	25,822,325	0	25,822,325	0	0	0
1332-21-4	Asbestos (friable)	0	0	0	8,157,587	0	8,157,587	0	0	0
1336-36-3	Polychlorinated biphenyls (PCBs)	0	0	0	4,250,781	0	4,250,781	0	0	0
7429-90-5	Aluminum (fume or dust)	0	0	0	3,175,130	0	3,175,130	0	0	0
--	Barium compounds	8,505	0	0	688,978	0	697,483	0	0	0
71-43-2	Benzene	9,744	15	0	477,445	0	487,204	0	4	0
8001-58-9	Creosote	0	0	0	270,423	0	270,423	0	0	0
7439-92-1	Lead	0	0	0	231,824	117	231,941	2,045	0	117
--	Copper compounds	295	0	0	222,839	1,239	224,373	74,085	0	1,239
7440-39-3	Barium	0	0	0	187,408	2,711	190,119	0	0	2,711

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.



# 1999 Toxics Release Inventory

## OREGON

### On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Weyerhaeuser Co., Springfield, Lane	1,992,505	46,785	0	0	0	0	2,039,290	3,375	0
Wah Chang Albany, Albany, Linn	615,300	1,004,520	0	0	0	0	1,619,820	85,000	8,400
Willamette Inds. Inc. Albany Paper Mill, Albany, Linn	1,245,557	43,498	0	0	0	5,281	1,294,336	10,800	0
Eastman Kodak Co., White City, Jackson	1,104,400	1,800	0	0	0	1,000	1,107,200	9	554
Pope & Talbot Inc. Halsey Pulp Mill, Halsey, Linn	1,048,450	24,220	0	0	0	0	1,072,670	4,675	0
Wacker Siltronic Corp., Portland, Multnomah	4,945	1,035,602	0	0	0	0	1,040,547	0	0
Georgia-Pacific West Inc., Toledo, Lincoln	873,551	41,444	0	0	0	24,300	939,295	0	0
Boise Cascade Corp., Saint Helens, Columbia	866,828	0	0	0	0	0	866,828	67,503	0
Wah Chang-Oremet Facility, Albany, Linn	23,350	640,000	0	0	0	0	663,350	0	0
Fort James Operating Co. - Wauna Mill, Clatskanie, Clatsop	490,049	43,767	0	0	0	77,003	610,819	0	0

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

### On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Chemical Waste Management of the Northwest Inc., Arlington, Gilliam	752	0	0	0	35,877,473	9,152,811	45,031,036	0	9,082
Boardman Plant, Boardman, Morrow	162,530	0	0	0	0	582,005	744,535	0	0
Tosco Portland Terminal, Portland, Multnomah	27,290	35	0	0	0	0	27,325	0	0
Arco Prods. Co. Portland Terminal, Portland, Multnomah	17,264	5	0	0	0	0	17,269	0	0
Mobil Oil Portland Terminal, Portland, Multnomah	12,082	0	0	0	0	0	12,082	0	0
Chevron Prods. Co. Willbridge Terminal, Portland, Multnomah	9,251	20	0	0	0	0	9,271	25	0
Van Waters & Rogers Inc., Portland, Multnomah	7,224	0	0	0	0	0	7,224	0	0
Chemcentral/Portland, Portland, Multnomah	5,850	0	0	0	0	0	5,850	0	0
Equilon Portland Terminal, Portland, Multnomah	4,500	0	0	0	0	0	4,500	0	0
Great Western Chemical Co. - Portland, Portland, Multnomah	3,020	0	0	0	0	0	3,020	9,684	0

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.



# 1999 Toxics Release Inventory

## OREGON

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- production- related Waste Managed Pounds
Cascade Steel Rolling Mills, Mc Minnville, Yamhill	0	170,034	0	0	0	0	6,985,881	7,155,915	0
Oregon Steel Mills Inc., Portland, Multnomah	0	0	0	0	0	0	2,414,800	2,414,800	0
Weyerhaeuser Co., Springfield, Lane	0	0	3,400,000	53	2,721,000	0	2,045,010	8,166,063	0
Wah Chang Albany, Albany, Linn	14,340,000	0	0	0	1,370,000	79,430	1,631,200	17,420,630	0
Willamette Inds. Inc. Albany Paper Mill, Albany, Linn	0	0	461,000	0	2,420,010	0	1,273,807	4,154,817	0
Eastman Kodak Co., White City, Jackson	1,826,100	36,360	1,551,500	276,200	2,881,736	91,500	1,107,309	7,770,705	4,900
Wacker Siltronic Corp., Portland, Multnomah	0	0	0	0	1,617,500	113,500	1,094,914	2,825,914	0
Pope & Talbot Inc. Halsey Pulp Mill, Halsey, Linn	0	0	238,000	0	4,915,320	4,593	1,069,140	6,227,053	7
Georgia-Pacific West Inc., Toledo, Lincoln	0	0	0	0	1,114,600	0	939,700	2,054,300	0
Boise Cascade Corp., Saint Helens, Columbia	0	0	848,682	0	0	3,887,321	866,807	5,602,810	0

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- production- related Waste Managed Pounds
Chemical Waste Management of the Northwest Inc., Arlington, Gilliam	0	0	0	0	24,334	1,202,564	44,572,376	45,799,274	0
Boardman Plant, Boardman, Morrow	0	0	0	0	0	0	744,510	744,510	0
Tosco Portland Terminal, Portland, Multnomah	118,500	249,940	0	470	2,010	470	25,530	396,920	0
Arco Prods. Co. Portland Terminal, Portland, Multnomah	0	0	0	0	0	0	17,269	17,269	0
Mobil Oil Portland Terminal, Portland, Multnomah	0	0	0	0	0	0	12,082	12,082	0
Great Western Chemical Co. - Portland, Portland, Multnomah	0	0	0	1,808	3,077	690	11,021	16,596	0
Chevron Prods. Co. Willbridge Terminal, Portland, Multnomah	0	0	0	0	0	1,022	9,340	10,362	0
Van Waters & Rogers Inc., Portland, Multnomah	0	0	0	0	0	0	7,224	7,224	0
Chemcentral/Portland, Portland, Multnomah	0	0	0	0	0	0	5,000	5,000	290
Equilon Portland Terminal, Portland, Multnomah	0	7	0	0	0	352	3,966	4,325	0

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.